

# Sandis Spolitis

## List of Publications by Year in descending order

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77  
papers

480  
citations

933447

10  
h-index

996975

15  
g-index

77  
all docs

77  
docs citations

77  
times ranked

194  
citing authors

#	ARTICLE	IF	CITATIONS
1	FBG-Based Sensing for Structural Health Monitoring of Road Infrastructure. Journal of Sensors, 2021, 2021, 1-11.	1.1	38
2	Extending the reach of DWDM-PON access network using chromatic dispersion compensation. , 2011, , .		33
3	Research on FBG-Based Sensor Networks and Their Coexistence with Fiber Optical Transmission Systems. Journal of Sensors, 2019, 2019, 1-13.	1.1	24
4	Latency causes and reduction in optical metro networks. Proceedings of SPIE, 2013, , .	0.8	16
5	Microsphere-Based Optical Frequency Comb Generator for 200 GHz Spaced WDM Data Transmission System. Photonics, 2020, 7, 72.	2.0	14
6	IM/DD WDM-PON Communication System Based on Optical Frequency Comb Generated in Silica Whispering Gallery Mode Resonator. IEEE Access, 2021, 9, 66335-66345.	4.2	14
7	Comparison of Dispersion Compensation Techniques for Real-Time up to 160 Gbit/s DWDM C-Band Transmission. Elektronika Ir Elektrotehnika, 2020, 26, 85-93.	0.8	14
8	Raman Assisted Fiber Optical Parametric Amplifier for S-Band Multichannel Transmission System. Fibers, 2021, 9, 9.	4.0	13
9	Demonstration of a fiber optical communication system employing a silica microsphere-based OFC source. Optics Express, 2021, 29, 10903.	3.4	13
10	Frequency comb generation in WGM microsphere based generators for telecommunication applications. Quantum Electronics, 2020, 50, 1043-1049.	1.0	13
11	Mixed Chromatic Dispersion Compensation Methods for Combined HDWDM Systems. , 2011, , .		12
12	Investigation of high-speed AWG filtered spectrum-sliced WDM PON system. , 2012, , .		12
13	Optimal design of spectrally sliced ASE seeded WDM-PON system. , 2012, , .		12
14	Cladding-Pumped Erbium/Ytterbium Co-Doped Fiber Amplifier for C-Band Operation in Optical Networks. Applied Sciences (Switzerland), 2021, 11, 1702.	2.5	12
15	Schemes for Compensation of Chromatic Dispersion in Combined HDWDM Systems. Latvian Journal of Physics and Technical Sciences, 2011, 48, .	0.6	11
16	Comparison of chromatic dispersion compensation techniques for WDM-PON solution. , 2012, , .		11
17	Cost effective WDM-AON with multicarrier source based on dual-pump FOPA. , 2014, , .		11
18	Optical Frequency Combs Generated in Silica Microspheres in the Telecommunication C-, U-, and E-Bands. Photonics, 2021, 8, 345.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Reach Improvement of Spectrum-Sliced Dense WDM-PON System. , 2012, , .		10
20	New generation energy efficient WDM-PON system using spectrum slicing technology. , 2012, , .		9
21	Evaluation and research of FBG optical temperature sensors network. , 2017, , .		9
22	Design and performance evaluation of FBG-based temperature sensors network. , 2017, , .		9
23	Road Pavement Structural Health Monitoring by Embedded Fiber-Bragg-Grating-Based Optical Sensors, 2022, 22, 4581.	3.8	8
24	SDN data center performance evaluation of torus and hypercube interconnecting schemes. , 2015, , .		7
25	Effectiveness evaluation of dispersion compensation methods for fiber-optical transmission systems. , 2016, , .		7
26	Evaluation of 4-PAM, NRZ and Duobinary Modulation Formats Performance for Use in 20 Gbit/s DWDM-PON Optical Access Systems. , 2018, , .		7
27	Performance improvement of high speed spectrum-sliced dense WDM-PON system. , 2012, , .		6
28	Hybrid ARoF-WDM PON Infrastructure for 5G Millimeter-wave Interface and Broadband Internet Service. , 2019, , .		6
29	Realization of dense bidirectional spectrum sliced WDM-PON access system. , 2014, , .		5
30	Extended reach 32-channel dense spectrum-sliced optical access system. , 2016, , .		5
31	Investigation of 4-PAM modulation format for use in WDM-PON optical access systems. , 2017, , .		5
32	Research of FBG Optical Sensors Network and Precise Peak Detection. , 2018, , .		5
33	Optical Power Budget of 25+ Gbps IM/DD PON with Digital Signal Post-Equalization. Applied Sciences (Switzerland), 2020, 10, 6106.	2.5	5
34	Research of hybrid WDM-PON data transmission system with embedded ASE-powered stealth channels for steganography applications. Optical Fiber Technology, 2020, 58, 102300.	2.7	5
35	Comparison of Passive Chromatic Dispersion Compensation Techniques for Long Reach Dense WDM-PON System. Elektronika Ir Elektrotechnika, 2012, 122, .	0.8	5
36	Noise Immunity of the Fibonacci Counter with the Fractal Decoder Device for Telecommunication Systems. Latvian Journal of Physics and Technical Sciences, 2019, 56, 12-21.	0.6	5

#	ARTICLE	IF	CITATIONS
37	Unified Multi-channel Spectrum-sliced WDM-PON Transmission System with Embedded FBG Sensors Network. , 2019, , .		4
38	Research of M-PAM and Duobinary Modulation Formats for Use in High-Speed WDM-PON Systems. , 2019, , .		4
39	Recent Developments in Cladding-Pumped Doped Fiber Amplifiers for Telecommunications Systems. , 2020, , .		4
40	Cladding-Pumped Er/Yb-Co-Doped Fiber Amplifier for Multi-Channel Operation. Photonics, 2022, 9, 457.	2.0	4
41	Investigation on Maximum Available Reach for Different Modulation Formats in WDM-PON Systems. Latvian Journal of Physics and Technical Sciences, 2016, 53, 66-75.	0.6	3
42	Comparison of dispersion compensation methods for 40Gbit/s WDM-PON transmission systems. , 2017, , .		3
43	FBG Sensors Network Embedded in Spectrum-sliced WDM-PON Transmission System Operating on Single Shared Broadband Light Source. , 2019, , .		3
44	100 Gbaud Onâ€“Off Keying/Pulse Amplitude Modulation Links in C-Band for Short-Reach Optical Interconnects. Applied Sciences (Switzerland), 2021, 11, 4284.	2.5	3
45	Evaluation of the Performance-Affecting Factors in the Converged PON. , 2021, , .		3
46	Estimating the indivisible error detecting Nodes based on an average probability method. Eastern-European Journal of Enterprise Technologies, 2020, 6, 25-33.	0.5	3
47	Silica Microsphere WGMR-Based Kerr-OFC Light Source and Its Application for High-Speed IM/DD Short-Reach Optical Interconnects. Applied Sciences (Switzerland), 2022, 12, 4722.	2.5	3
48	Spectrum sliced WDM-PON system as energy efficient solution for optical access systems. , 2013, , .		2
49	Investigation on optimal transmission parameters for different modulation formats in 10 Gbit/s WDM-PON systems. , 2016, , .		2
50	Performance comparison of modulation formats for 10 Gbit/s WDM-PON systems. , 2016, , .		2
51	Architecture and evaluation of software-defined optical switching matrix for hybrid data centers. , 2016, , .		2
52	W-band real-time transmission utilizing a reconfigurable RAU for NG-PON networks. , 2016, , .		2
53	Performance investigation of dispersion compensation methods for WDM-PON transmission systems. , 2017, , .		2
54	Comparison of C-band and L-band WDM-PON systems performance with PAM-4 modulation format. , 2017, , .		2

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55	Influence of dispersion slope compensation on 40 Gbit/s WDM-PON transmission system performance with G.652 and G.655 optical fibers. , 2017, , .		2
56	Evaluation of the Channel Spacing and Transceiver Bandwidth for PAM-4 Modulated WDM-PON. , 2018, , .		2
57	Considering of PAM-4, DB, NRZ and RZ for Implementation in Next-Generation PONs. , 2018, , .		2
58	Performance Analysis of Cost-efficient High-speed up to 32 Gbit/s WDM-PON Next-generation Access Network with Dispersion Compensation. , 2019, , .		2
59	The architecture of hybrid mm-wave ARoF Super-PON system for 5G implementation. Optical Fiber Technology, 2021, 67, 102697.	2.7	2
60	A Novel Approach for Transmission of 56 Gbit/s NRZ Signal in Access Network Using Spectrum Slicing Technique. , 2013, , .		2
61	Implementation of Multi-Wavelength Source for DWDM-PON Fiber Optical Transmission Systems. Latvian Journal of Physics and Technical Sciences, 2020, 57, 24-33.	0.6	2
62	Impact of Kerr optical frequency comb linewidth on the performance of NRZ-OOK modulated fiber optical communication system. Laser Physics, 2021, 31, 115101.	1.2	2
63	Impact of the receiver and transmitter bandwidth on the performance of high-speed OFDM signal in Radio-over-Fiber Communication Systems. , 2021, , .		2
64	Different optical fiber nonlinear coefficient experimental measurements. , 2016, , .		1
65	Demonstration of scalable spectrum-sliced optical WDM-PON access system. , 2017, , .		1
66	Comparison of Chromatic Dispersion Compensation Method Efficiency for 10 Gbit/S RZ-OOK and NRZ-OOK Wdm-Pon Transmission Systems. Latvian Journal of Physics and Technical Sciences, 2017, 54, 65-75.	0.6	1
67	Research on NRZ-OOK and Duobinary Modulation formats for C and L band 25 Gbit/s WDM-PON Transmission Systems. , 2018, , .		1
68	Analog Radio-over-fiber WDM-PON Architecture for 5G Millimeter-wave Interface. , 2019, , .		1
69	Evaluation of the Impact of MZM Frequency Response on BER Performance of PAM-4 Modulated WDM-PON. , 2019, , .		1
70	Fiber Bragg Grating Sensors Integration in Fiber Optical Systems. , 0, , .		1
71	Evaluation of Intensity Modulated WDM FOTS with Interleaved RS-FEC Code Schemes. , 2020, , .		1
72	FPGA-Implemented Fractal Decoder with Forward Error Correction in Short-Reach Optical Interconnects. Entropy, 2022, 24, 122.	2.2	1

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73	Towards bandwidth scalable transceiver technology for optical metro-access networks. , 2015, , .		0
74	Sliceable transponders for metro-access transmission links. , 2015, , .		0
75	Assessment of broadband light source spectral slicing in PON systems. , 2016, , .		0
76	Research of PAM-4 Modulated WDM-PON Architecture for 5G Millimeter-wave Hybrid Photonics-wireless Interface. , 2019, , .		0
77	Integration of FEC Channel-coding Schemes Based on the Bose-Chaudhuri-Hocquenghem (BCH) Code for WDM Fiber Optical Communication Systems. , 2019, , .		0